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AMENDMENTS TO THE CLAIMS

Please amend claim 22.

This listing of claims will replace all versions, and listings, of claims in the application.

Listing of Claims

- 1-21, (Canceled)
- 22. (Currently amended) A method for in vivo detection of H. pylori the method comprising:

inserting an autonomous *in vivo* sensing device into an upper gastrointestinal tract of a patient, said device comprising:

a pH-sensitive color-changing material placed on a device's an optical window of the device, and

a magnetic element disposed within said device;

moving the autonomous *in vivo* device to contact at least one location of the upper gastrointestinal tract by an external magnetic field which moves said magnetic element;

sensing pH at the location of the upper gastrointestinal tract using said pH-sensitive color-changing material;

processing pH data sensed to determine presence of *H. pylori*; and transmitting pH data to an external receiving unit.

- (Original) The method according to claim 22, further comprising indicating a pH value which is about equal to or exceeds a predetermined threshold.
- (Original) The method according to claim 22, wherein sensing pH is by imaging a color changing pH indicator.
- (Previously Presented) The method according to claim 23, wherein the pH value is about 5.5.

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26-29. (Canceled)

- 30. (Previously Presented) The method according to claim 22, further comprising imaging the gastrointestinal tract using said autonomous *in vivo* device,
- (Previously Presented) The method according to claim 30, wherein the step of transmitting pH data further comprises transmitting image data.
- 32. (Previously Presented) The method according to claim 22, further comprising ingesting urea into said patient prior to inserting the autonomous *in vivo* device.
- (Previously Presented) The method according to claim 22, further comprising the step
 of indicating a pH change which is about equal to or exceeds a predetermined threshold.
- 34-35. (Canceled)
- (Previously Presented) A method according to claim 22, wherein transmitting is by radio frequency.
- 37. (New) The method according to claim 22, wherein the step of moving comprises moving the capsule in a continuous track along the stomach wall.